

Serial No. 10/647,582
Docket No. NEC F-11100 DIV
AMENDMENT D

REMARKS

The allowance of claims 7-12, 14, 17, 20, 21, 24, 25, 27 and 28 is noted with thanks.

Claims 13, 15, 16, 18, 22, 26, 29 and 30 have been amended to obviate the §112 objections and/or to better define the claimed invention. No new matter has been added by the aforementioned changes.

The rejection of claim 13 under 35 USC §102(e) as being anticipated by Hogeboom (US Patent No. 6,194,949) is in error. Claim 13, as amended, requires "[a] control circuit for turning on or off both said second bias current driven by said third current source circuit and said second bias current driven by said fourth current circuit." As discussed in both Applicant's Amendments B and C, which are incorporated by reference, in Hogeboom, voltages are controlled using an analog mode. Thus, claim 13 is patentable over Hogeboom.

The rejection of claims 15, 16, 18, 19, 22, 23, 26, 29 and 30 under 35 USC §102(a) as being anticipated by Bridgewater (US Patent No. 5,949,253) is in error. Independent claims 15, 16, 18, 19, 22, 23, 26, 29, and 30 require a pair of push-pull circuits and four current source circuits for creating a bias current flow in the push-pull circuits. FIG. 10 of Bridgewater teaches a pair of push-pull circuits with at least five separate current sources.

Moreover, claims 16, 19, and 26 require "said control signal is ... independent of an input signal." Bridgewater teaches data 502 as an input to a control circuit 510. Finally, claims 16, 18, 26, 29 and 30, as amended, require "each push-pull circuit comprises at least two different types of transistors." FIG. 10 of Bridgewater shows driver circuit 512 with four "cross-coupled NMOS transistors 530, 532, 534, and 536". (Column 11, lines 33-34). Thus, claims 15, 16, 18, 19, 22, 23, 26, 29 and 30 are not anticipated nor rendered obvious by Bridgewater.

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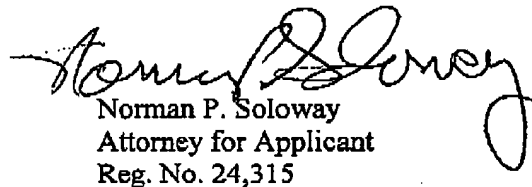
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It is believed therefore, the application now is in order for allowance. Early and favorable action is respectfully requested.

Having dealt with all the objections raised by the Examiner, the Application is believed to be in order for allowance. Early and favorable action are respectfully requested.

In the event there are any fee deficiencies or additional fees are payable, please charge them (or credit any overpayment) to our Deposit Account Number 08-1391.

Respectfully submitted,


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CERTIFICATE OF FACSIMILE TRANSMISSION

I certify that this correspondence is being transmitted via facsimile to the United States Patent Office, Attn. Examiner Long T. NGUYEN at number 571-273-8300 on October 17, 2005 at Tucson, Arizona.

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